What is claimed is:

- 1 1. A structure having at least one outer wall, said outer wall further comprising:
- 2 an internal wall section;
- an external wall section displaced a predetermined distance from and
- 4 juxtaposed with said internal wall section;
- 5 an air flow passage between said internal wall section and said external
- 6 wall section; and
- 7 an air circulation system providing an air flow through the air flow
- 8 passage to inhibit moisture on the internal wall section.
- 1 2. The structure of claim 1 wherein the air provided is conditioned air to control
- 2 relative humidity of said air in said air flow passage.
- 1 3. The structure of claim 1 further comprising an attic that is in air communication
- 2 with the air flow passage.
- 1 4. The structure of claim 1 further comprising a roof that is coupled to the external
- 2 wall section to form an air seal therebetween.
- 1 5. The structure of claim 3 wherein the air circulation system creates a positive air
- 2 pressure in the structure to cause at least some of said air to flow through the air flow
- 3 passage.

- 1 6. The structure of claim 3 wherein the air circulation system is placed at one of (i)
- 2 inside the structure; (ii) outside the structure system with an air conduit supplying air
- from the air circulation system to the air flow passage; and (iii) at least in part inside the
- 4 structure.
- 7. The structure of claim 1 wherein the at least one outer wall includes a plurality of
- 2 such outer walls and a roof to form an enclosed structure.
- 1 8. The structure of claim 1 wherein the external wall section includes an insulating
- 2 layer.
- 1 9. The structure of claim 8 wherein the external wall section further comprises:
- 2 a weather-resistant layer outside of the insulating layer; and
- a sheath inside of the insulating layer.
- 1 10. The structure of claim 1 wherein the internal wall section includes a liquid barrier.
- 1 11. The structure of claim 10 wherein the internal wall section further comprises a
- 2 wall framing system to provide structural support to the internal wall section.
- 1 12. The structure of claim 11 wherein the internal wall section further comprises a
- 2 first sheathing between the liquid barrier and the wall framing system.

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- 1 13. The structure of claim 12 wherein the internal wall section further includes a
- 2 second sheathing inside of the wall framing system.
- 1 14. The structure of claim 1 further comprising at least one sensor providing a signal
- 2 indicative of presence of moisture.
- 1 15. The structure of claim 14 wherein the at least one sensor is placed at one of (i) in
- the air flow passage; (ii) in an attic of the structure; (iii) adjacent to the air circulation
- 3 system.
- 1 16. The structure system of claim 14 further comprising a controller for controlling
- the air circulation system in response to the signal from the at least one sensor.
- 1 17. An enclosed structure comprising:
- 2 at least one outer wall that includes
- an internal wall section;
- 4 an external wall section displaced a predetermined distance from and
- 5 juxtaposed with said internal wall section;
- 6 an air flow passage between said internal wall section and said external
- 7 wall section;
- 8 an air circulation system for causing air to flow through the flow passage
- 9 to inhibit moisture on the inner wall section;

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- at least one sensor for generating a signal indicative of moisture; and

 a controller for controlling said circulation system in response to said

 signal from said at least one sensor to inhibit moisture on the internal wall

 section.
- 1 18. The enclosed structure of claim 17, wherein the at least one sensor comprises at
- 2 least one relative humidity sensor located proximate to the air flow passage for indicating
 - the relative humidity of the air flow in said air flow passage.
- 1 19. The enclosed structure of claim 17, wherein the controller includes at least one
- 2 circuit to interface with said at least one sensor, and a processor, acting according to
- 3 programmed instructions, to control the circulation system to provide a predetermined
- 4 relative humidity of the air flow in said air flow passage.
- 1 20. A method for inhibiting moisture accumulation in an outer wall of a structure,
- 2 comprising:
- providing an outer wall having an internal wall section and an external
- 4 wall section with an air flow passage therebetween; and
- 5 supplying air into the air flow passage by an air circulation system to
- 6 inhibit moisture accumulation on the internal wall section.

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- 1 21. The method of claim 20 wherein supplying air comprises supplying conditioned
- 2 air.
- 1 22. The method of claim 20 wherein supplying air comprises supplying air with an air
- 2 circulation system associated with the structure.
- 1 23. The method of claim 20 further comprising determining relative humidity of the
- 2 air inside the structure.
- 1 24. The method of claim 23 further comprising controlling supply of the air in
- 2 response to the determined relative humidity.
- 1 25. The method of claim 23 further comprising controlling the air circulation system
- 2 in accord to programmed instruction provided to a controller associated with the air
- 3 circulation system.

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